

**ABSTRACT OF THE DISCLOSURE**

A method with corresponding circuit arrangement is disclosed, whereby for evaluation of a measured signal arising as an analogue value with a potential greater than zero potential in a measuring device requiring a supply current, the measured information therefrom is transmitted as a digital signal to an analytical unit lying at earth potential after an A/D conversion. The generated digital signal thus provides the clock signal for a modulation of the supply current and thus also carries out the function of the carrier for the information content of the measured signal. Curved characteristic lines for compression/decompression of the signals are used. Suitable devices for temperature compensation may be similarly provided.